



Bait Station Information Sheet

For more information, contact Laura Devany (602) 506-6611

Bait Station

- Constructed by Maricopa County Tent City inmates.
- Rodenticide (rat poison) inserted by certified (with State Structural Pest Control) County employees.
- Design is modified version of U.S.D.A. model.
- Tamper-resistant to minimize access by non-target species.

Rodenticide Used in Bait Station: Bromadiolone

- Registered with the U.S. Environmental Protection Agency (EPA) and recommended for use in alleys for roof rats.
- Newer class of anti-coagulant with extremely low level of active ingredient.
- Anti-coagulant reduces the ability of blood to clot so that the rat bleeds internally and dies (usually within three to five days).
- Each station will have eight ounces of bait (four two-ounce blocks), consisting of .005% rodenticide and 99.95% food substances like grain and flavoring.

Bromadiolone Toxicity Levels:

- $LD_{50} > 5000 \text{ mg/kg}$. LD_{50} means 50% mortality rate when eating 5000mg/kg. The lower the LD_{50} , the higher the toxicity.
- Compared to Nicotine: $LD_{50}=53$; Caffeine: $LD_{50}=192$; Aspirin: $LD_{50}=1240$; Table Salt: $LD_{50}=3320$.
- A 22-pound dog would have to eat nine pounds of bait (the full contents of 18 bait stations) to have a 50% mortality rate without treatment.
- A four-pound cat would have to eat 2.5 pounds (the full contents of five bait stations) to have a 50% mortality rate without treatment.
- Vitamin K_1 is an effective antidote for anticoagulant poisoning.
- Secondary effects: A cat would have to eat more than 30 poisoned rats to have a toxic effect.

Bait Station Deployment

- Certified County employees and apprentices will install bait stations on utility poles six to eight feet above the ground. Utility poles are approximately 100-200 feet apart.
- Bait stations will be installed in hot spots (where fruit clean up has been done) and in the half-mile buffer zone on the outside perimeter of infested area, moving inward.
- The whole area, including buffer zone, is 24th St to 68th St. and Camelback to McDowell, which is approximately 18 square miles.
- The County will monitor stations and re-bait at least once a month.
- The County will pick up dead rats in public areas; residents are encouraged to dispose of rats around their homes.

Safety Precautions

- Use rubber gloves and dispose of rats in plastic garbage bags.
 - In cases of emergency, call the local Poison Control Center at (602) 253-3334.
 - Call the Maricopa County Citizen's Environmental Complaint Line at (602) 506-6616 to report tampering of bait stations.
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